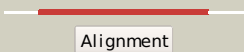

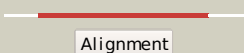

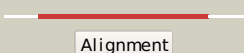

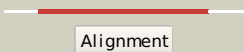

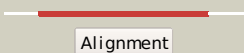

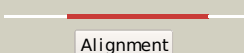

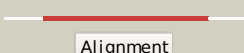

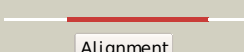

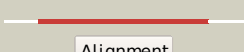

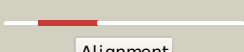

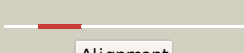














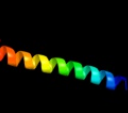





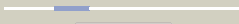

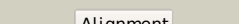

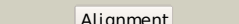

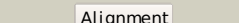


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3r1rB_	 Alignment		100.0	100	PDB header: complex (oxidoreductase/peptide) Chain: B: PDB Molecule: ribonucleotide reductase r1 protein; PDBTitle: ribonucleotide reductase r1 protein with amppnp occupying2 the activity site from escherichia coli
2	c3hnfA_	 Alignment		100.0	30	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase large subunit; PDBTitle: crystal structure of human ribonucleotide reductase 1 bound to the2 effectors ttp and datp
3	c2wghA_	 Alignment		100.0	30	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase large PDBTitle: human ribonucleotide reductase r1 subunit (rrm1) in complex2 with datp and mg.
4	c1pemA_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase 2 alpha PDBTitle: ribonucleotide reductase protein r1e from salmonella2 typhimurium
5	c2cvuA_	 Alignment		100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase large chain PDBTitle: structures of yeast ribonucleotide reductase i
6	d1rlra2	 Alignment		100.0	99	Fold: PFL-like glycy radical enzymes Superfamily: PFL-like glycy radical enzymes Family: R1 subunit of ribonucleotide reductase, C-terminal domain
7	c1xjeA_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleotide reductase, b12-dependent; PDBTitle: structural mechanism of allosteric substrate specificity in a2 ribonucleotide reductase: dttp-gdp complex
8	d1peqa2	 Alignment		100.0	25	Fold: PFL-like glycy radical enzymes Superfamily: PFL-like glycy radical enzymes Family: R1 subunit of ribonucleotide reductase, C-terminal domain
9	d1l1la_	 Alignment		100.0	15	Fold: PFL-like glycy radical enzymes Superfamily: PFL-like glycy radical enzymes Family: B12-dependent (class II) ribonucleotide reductase
10	d1rlra1	 Alignment		100.0	100	Fold: R1 subunit of ribonucleotide reductase, N-terminal domain Superfamily: R1 subunit of ribonucleotide reductase, N-terminal domain Family: R1 subunit of ribonucleotide reductase, N-terminal domain
11	d1peqa1	 Alignment		100.0	14	Fold: R1 subunit of ribonucleotide reductase, N-terminal domain Superfamily: R1 subunit of ribonucleotide reductase, N-terminal domain Family: R1 subunit of ribonucleotide reductase, N-terminal domain

12	dlhk8a_		Alignment		95.3	13	Fold: PFL-like glycyl radical enzymes Superfamily: PFL-like glycyl radical enzymes Family: Class III anaerobic ribonucleotide reductase NRDD subunit
13	clhk8A_		Alignment		95.3	13	PDB header: oxidoreductase Chain: A: PDB Molecule: anaerobic ribonucleotide-triphosphate reductase; PDBTitle: structural basis for allosteric substrate specificity2 regulation in class iii ribonucleotide reductases:3 nrdd in complex with dntp
14	dlh16a_		Alignment		86.4	19	Fold: PFL-like glycyl radical enzymes Superfamily: PFL-like glycyl radical enzymes Family: PFL-like
15	dlqhma_		Alignment		43.8	17	Fold: PFL-like glycyl radical enzymes Superfamily: PFL-like glycyl radical enzymes Family: PFL-like
16	c2f3oB_		Alignment		43.3	19	PDB header: unknown function Chain: B: PDB Molecule: pyruvate formate-lyase 2; PDBTitle: crystal structure of a glycyl radical enzyme from archaeoglobus2 fulgidus
17	dlr9da_		Alignment		42.8	16	Fold: PFL-like glycyl radical enzymes Superfamily: PFL-like glycyl radical enzymes Family: PFL-like
18	dlh3ob_		Alignment		34.1	13	Fold: Histone-fold Superfamily: Histone-fold Family: TBP-associated factors, TAFs
19	d2okqa1		Alignment		33.0	8	Fold: Ferredoxin-like Superfamily: Dimeric alpha+beta barrel Family: YbaA-like
20	dlvjfa_		Alignment		31.5	18	Fold: YbaK/ProRS associated domain Superfamily: YbaK/ProRS associated domain Family: YbaK/ProRS associated domain
21	c2okqB_		Alignment	not modelled	22.8	8	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein ybaa; PDBTitle: crystal structure of unknown conserved ybaa protein from2 shigella flexneri
22	c2bjgB_		Alignment	not modelled	22.6	12	PDB header: hydrolase Chain: B: PDB Molecule: choloylglycine hydrolase; PDBTitle: crystal structure of conjugated bile acid hydrolase from2 clostridium perfringens in complex with reaction products3 taurine and deoxycholate
23	c2hezB_		Alignment	not modelled	20.8	14	PDB header: hydrolase Chain: B: PDB Molecule: bile salt hydrolase; PDBTitle: bifidobacterium longum bile salt hydrolase
24	d2pvaa_		Alignment	not modelled	19.7	12	Fold: Ntn hydrolase-like Superfamily: N-terminal nucleophile aminohydrolases (Ntn hydrolases) Family: Penicillin V acylase
25	dlj09a2		Alignment	not modelled	19.2	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
26	d2ccqa1		Alignment	not modelled	18.5	16	Fold: PUG domain-like Superfamily: PUG domain-like Family: PUG domain
27	clpgjA_		Alignment	not modelled	14.7	39	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase; PDBTitle: x-ray structure of 6-phosphogluconate dehydrogenase from the protozoan2 parasite t. brucei
28	c3pg6D_		Alignment	not modelled	14.5	15	PDB header: ligase Chain: D: PDB Molecule: e3 ubiquitin-protein ligase dtx3l; PDBTitle: the carboxyl terminal domain of human dextx 3-like

29	d2b4va2	Alignment	not modelled	13.7	44	Fold: Nucleotidyltransferase Superfamily: Nucleotidyltransferase Family: RNA editing terminal uridyl transferase 2, RET2, catalytic domain
30	c2iz1C	Alignment	not modelled	13.7	28	PDB header: oxidoreductase Chain: C: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating; PDBTitle: 6pdh complexed with pex inhibitor synchrotron data
31	d1vmha	Alignment	not modelled	12.1	13	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
32	d1vmfa	Alignment	not modelled	12.1	16	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
33	d1ywsa1	Alignment	not modelled	12.1	21	Fold: Rubredoxin-like Superfamily: CSL zinc finger Family: CSL zinc finger
34	d1mska	Alignment	not modelled	12.1	20	Fold: Methionine synthase activation domain-like Superfamily: Methionine synthase activation domain-like Family: Methionine synthase SAM-binding domain
35	c2p4qA	Alignment	not modelled	12.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating 1; PDBTitle: crystal structure analysis of gnd1 in saccharomyces cerevisiae
36	c2jr7A	Alignment	not modelled	11.6	21	PDB header: metal binding protein Chain: A: PDB Molecule: dph3 homolog; PDBTitle: solution structure of human desr1
37	d1vmja	Alignment	not modelled	11.5	26	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
38	d1wgea1	Alignment	not modelled	11.2	21	Fold: Rubredoxin-like Superfamily: CSL zinc finger Family: CSL zinc finger
39	d1avca2	Alignment	not modelled	10.9	14	Fold: Annexin Superfamily: Annexin Family: Annexin
40	d1vkia	Alignment	not modelled	10.5	13	Fold: YbaK/ProRS associated domain Superfamily: YbaK/ProRS associated domain Family: YbaK/ProRS associated domain
41	c2p6hB	Alignment	not modelled	10.3	26	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of hypothetical protein ape1520 from aeropyrum2 pernix k1
42	c2xrgA	Alignment	not modelled	10.3	11	PDB header: hydrolase Chain: A: PDB Molecule: ectonucleotide pyrophosphatase/phosphodiesterase family PDBTitle: crystal structure of autotaxin (enpp2) in complex with the2 ha155 boronic acid inhibitor
43	c2oqcB	Alignment	not modelled	10.3	10	PDB header: hydrolase Chain: B: PDB Molecule: penicillin v acylase; PDBTitle: crystal structure of penicillin v acylase from bacillus subtilis
44	d1xn7a	Alignment	not modelled	10.3	64	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Hypothetical protein YhgG
45	d2d0ob1	Alignment	not modelled	9.6	10	Fold: Anticodon-binding domain-like Superfamily: B12-dependent dehydratase associated subunit Family: Dehydratase-reactivating factor beta subunit
46	c3rcqA	Alignment	not modelled	9.1	25	PDB header: oxidoreductase Chain: A: PDB Molecule: aspartyl/asparaginyl beta-hydroxylase; PDBTitle: crystal structure of human aspartate beta-hydroxylase isoform a
47	c2qlwA	Alignment	not modelled	8.9	20	PDB header: isomerase Chain: A: PDB Molecule: rhau; PDBTitle: crystal structure of rhamnose mutarotase rhau of rhizobium2 leguminosarum
48	c2qlxA	Alignment	not modelled	8.9	20	PDB header: isomerase Chain: A: PDB Molecule: l-rhamnose mutarotase; PDBTitle: crystal structure of rhamnose mutarotase rhau of rhizobium2 leguminosarum in complex with l-rhamnose
49	d1vpfa	Alignment	not modelled	8.7	14	Fold: YjbQ-like Superfamily: YjbQ-like Family: YjbQ-like
50	c2p6cB	Alignment	not modelled	8.5	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: aq_2013 protein; PDBTitle: crystal structure of hypothetical protein aq_2013 from aquifex2 aeolicus vf5.
51	d1wiga2	Alignment	not modelled	8.3	33	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: LIM domain
52	d2g5ca2	Alignment	not modelled	8.3	33	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
53	c3dzba	Alignment	not modelled	8.2	26	PDB header: biosynthetic protein Chain: A: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from streptococcus2 thermophilus
54	c2xr9A	Alignment	not modelled	7.8	11	PDB header: hydrolase Chain: A: PDB Molecule: ectonucleotide pyrophosphatase/phosphodiesterase family PDBTitle: crystal structure of autotaxin (enpp2)
						Fold: UDP-Glycosyltransferase/glycogen phosphorylase

55	d1f6da_	Alignment	not modelled	7.7	18	Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
56	d1x8da1	Alignment	not modelled	7.5	40	Fold: Ferredoxin-like Superfamily: Dimeric alpha+beta barrel Family: YiiL-like
57	c1vraA_	Alignment	not modelled	7.4	10	PDB header: transferase Chain: A: PDB Molecule: arginine biosynthesis bifunctional protein argj; PDBTitle: crystal structure of arginine biosynthesis bifunctional protein argj2 (10175521) from bacillus halodurans at 2.00 a resolution
58	c2g5cD_	Alignment	not modelled	7.4	32	PDB header: oxidoreductase Chain: D: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from aquifex aeolicus
59	d1gv2a2	Alignment	not modelled	7.4	24	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Myb/SANT domain
60	d1f0ya2	Alignment	not modelled	7.3	28	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
61	c2pv7B_	Alignment	not modelled	7.2	39	PDB header: isomerase, oxidoreductase Chain: B: PDB Molecule: t-protein [includes: chorismate mutase (ec 5.4.99.5) (cm) PDBTitle: crystal structure of chorismate mutase / prephenate dehydrogenase2 (tyra) (1574749) from haemophilus influenzae rd at 2.00 a resolution
62	c3sggA_	Alignment	not modelled	7.1	7	PDB header: hydrolase Chain: A: PDB Molecule: hypothetical hydrolase; PDBTitle: crystal structure of a hypothetical hydrolase (bt_2193) from2 bacteroides thetaiotaomicron vpi-5482 at 1.25 a resolution
63	c1idzA_	Alignment	not modelled	7.0	24	PDB header: dna-binding protein Chain: A: PDB Molecule: mouse c-myb dna-binding domain repeat 3; PDBTitle: structure of myb transforming protein, nmr, 20 structures
64	c3kowH_	Alignment	not modelled	6.9	20	PDB header: metal binding protein Chain: H: PDB Molecule: d-ornithine aminomutase s component; PDBTitle: crystal structure of ornithine 4,5 aminomutase backsoaked complex
65	c3ggpA_	Alignment	not modelled	6.8	32	PDB header: oxidoreductase Chain: A: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from a. aeolicus in2 complex with hydroxyphenyl propionate and nad+
66	d1dm5a_	Alignment	not modelled	6.8	19	Fold: Annexin Superfamily: Annexin Family: Annexin
67	d1at3a_	Alignment	not modelled	6.7	30	Fold: Herpes virus serine proteinase, assemblin Superfamily: Herpes virus serine proteinase, assemblin Family: Herpes virus serine proteinase, assemblin
68	d2csba2	Alignment	not modelled	6.7	21	Fold: SAM domain-like Superfamily: RuvA domain 2-like Family: Topoisomerase V repeat domain
69	c2wasA_	Alignment	not modelled	6.6	25	PDB header: transferase Chain: A: PDB Molecule: 3-oxoacyl-[acyl-carrier-protein] synthase; PDBTitle: structure of the fungal type i fas ppt domain
70	d1wdka3	Alignment	not modelled	6.6	39	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
71	d2pgda2	Alignment	not modelled	6.6	28	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
72	d1hm6a_	Alignment	not modelled	6.5	18	Fold: Annexin Superfamily: Annexin Family: Annexin
73	d1nbwb_	Alignment	not modelled	6.4	25	Fold: Anticodon-binding domain-like Superfamily: B12-dependent dehydratase associated subunit Family: Dehydratase-reactivating factor beta subunit
74	c2ep9A_	Alignment	not modelled	6.3	33	PDB header: oxidoreductase Chain: A: PDB Molecule: l-gulonate 3-dehydrogenase; PDBTitle: crystal structure of the rabbit l-gulonate 3-dehydrogenase2 (nadh form)
75	d1chua3	Alignment	not modelled	6.2	15	Fold: Succinate dehydrogenase/fumarate reductase flavoprotein, catalytic domain Superfamily: Succinate dehydrogenase/fumarate reductase flavoprotein, catalytic domain Family: Succinate dehydrogenase/fumarate reductase flavoprotein, catalytic domain
76	c3crw1_	Alignment	not modelled	6.2	16	PDB header: hydrolase Chain: 1: PDB Molecule: xpd/rad3 related dna helicase; PDBTitle: "xpd_apo"
77	d1eexb_	Alignment	not modelled	6.1	22	Fold: Anticodon-binding domain-like Superfamily: B12-dependent dehydratase associated subunit Family: Diol dehydratase, beta subunit
78	d1vzva_	Alignment	not modelled	5.9	30	Fold: Herpes virus serine proteinase, assemblin Superfamily: Herpes virus serine proteinase, assemblin Family: Herpes virus serine proteinase, assemblin
79	c2c1fA_	Alignment	not modelled	5.9	22	PDB header: hydrolase Chain: A: PDB Molecule: bifunctional endo-1,4-beta-xylanase a; PDBTitle: the structure of the family 11 xylanase from neocallimastix2 patriciarum
						Fold: NAD(P)-binding Rossmann-fold domains

80	dli36a2	Alignment	not modelled	5.9	28	Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
81	c2h1zA	Alignment	not modelled	5.9	50	PDB header: toxin Chain: A: PDB Molecule: hybrid atracotoxin; PDBTitle: structure of a dual-target spider toxin
82	d1wo8a1	Alignment	not modelled	5.8	13	Fold: Methylglyoxal synthase-like Superfamily: Methylglyoxal synthase-like Family: Methylglyoxal synthase, MgsA
83	d1hrti	Alignment	not modelled	5.8	40	Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: Leech antihemostatic proteins Family: Hirudin-like
84	c2v4iA	Alignment	not modelled	5.8	6	PDB header: transferase Chain: A: PDB Molecule: glutamate n-acetyltransferase 2 alpha chain; PDBTitle: structure of a novel n-acyl-enzyme intermediate of an n-2 terminal nucleophile (ntn) hydrolase, oat2
85	d1zeta1	Alignment	not modelled	5.8	20	Fold: Lesion bypass DNA polymerase (Y-family), little finger domain Superfamily: Lesion bypass DNA polymerase (Y-family), little finger domain Family: Lesion bypass DNA polymerase (Y-family), little finger domain
86	d3cuma2	Alignment	not modelled	5.8	35	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
87	c2dwuA	Alignment	not modelled	5.8	15	PDB header: isomerase Chain: A: PDB Molecule: glutamate racemase; PDBTitle: crystal structure of glutamate racemase isoform race1 from bacillus2 anthracis
88	d1mbja	Alignment	not modelled	5.8	21	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Myb/SANT domain
89	c1mbjA	Alignment	not modelled	5.8	21	PDB header: dna binding protein Chain: A: PDB Molecule: myb proto-oncogene protein; PDBTitle: mouse c-myb dna-binding domain repeat 3
90	c2rpaA	Alignment	not modelled	5.8	12	PDB header: hydrolase Chain: A: PDB Molecule: katanin p60 atpase-containing subunit a1; PDBTitle: the solution structure of n-terminal domain of microtubule severing2 enzyme
91	d1sfkb	Alignment	not modelled	5.7	20	Fold: Flavivirus capsid protein C Superfamily: Flavivirus capsid protein C Family: Flavivirus capsid protein C
92	d1uoua1	Alignment	not modelled	5.7	18	Fold: Methionine synthase domain-like Superfamily: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain Family: Nucleoside phosphorylase/phosphoribosyltransferase N-terminal domain
93	c3njqB	Alignment	not modelled	5.7	30	PDB header: viral protein/inhibitor Chain: B: PDB Molecule: orf 17; PDBTitle: crystal structure of kaposi's sarcoma-associated herpesvirus protease2 in complex with dimer disruptor
94	d1m9ia2	Alignment	not modelled	5.7	22	Fold: Annexin Superfamily: Annexin Family: Annexin
95	c2p6uA	Alignment	not modelled	5.7	36	PDB header: dna binding protein Chain: A: PDB Molecule: afuhel308 helicase; PDBTitle: apo structure of the hel308 superfamily 2 helicase
96	c2rafC	Alignment	not modelled	5.7	17	PDB header: oxidoreductase Chain: C: PDB Molecule: putative dinucleotide-binding oxidoreductase; PDBTitle: crystal structure of putative dinucleotide-binding2 oxidoreductase (np_786167.1) from lactobacillus plantarum3 at 1.60 a resolution
97	d1h4ga	Alignment	not modelled	5.6	17	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
98	d2pv7a2	Alignment	not modelled	5.6	44	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
99	c2ysrA	Alignment	not modelled	5.6	17	PDB header: signaling protein Chain: A: PDB Molecule: dep domain-containing protein 1; PDBTitle: solution structure of the dep domain from human dep domain-2 containing protein 1